TIMOFEYEVA, A.N.

Case of death during an attack of bronchial asthma. Sov. med. 24 no. 10:113-114 0 '60. (MIRA 13:12)

1. Iz Leningradskogo nauchno-issledovatel'skogo instituta skoroy pomoshchi imeni I.I. Dzhanelidze.

(ASTHMA) (DEATH)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755720014-9"

TIMOFETEVA. A.N.; SHKURKO, Ye.D.; UDAL'TSOVA, M.S.

[188] [188]

Listerellal psychosis. Zh. nevropat. psikhiat., Moskva 53 no.8:625-631 Aug 1953. (CIML 25:4)

1. Department of Psychiatry of the State Order of Lenin Institute for the Advanced Training of Physicians imeni S. M. Kirov.

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THE REPORT OF THE PROPERTY OF

TIMOFEYEVA, A. N.

"Dinamika i Osobennosti Bezuslovnykh Sosudistykh Refleksov Pri Maniakal'noy i Depressivnoy Fazakh Maniakal'no-Depressivnogo Psikhoza." p. 198

"O Psikhozakh Pri Listerelleznoy Infektsii," p. 208

Psikhiatricheskaya klinika i problemy patologii vysshey nervnoy deyatel'nosti. Sbornik trudov Kafedry psikhiatrii., Leningrad. 1957. vol. 2. resp. ed. I.F. SIUCHEVSKIY.

Chair of Psychiatry. Leningrad State Inst. Advanced Training of Physiciana.

TIMOFEYEVA, A.N.; SHKURKO, Ye.D.; UDAL'TSOVA, M.S.

Listerellal psychosis. Zhur.nevr.i psikh. 53 no.8:625-631 Ag '53. (MIRA 6:9)

1. Kafedra psikhiatrii Gosudarstvennogo ordena Lenina instituta usovershenstvovaniya vrachey im.S.M.Kirova. (Psychoses) (Listerellosis)

TIMOTHYLVA, A. II.

TIMOFRYEVA, A. N.: "Clinical symptoms of manic-depressive psycholis and their pathogenetic and pathophysiological bases." Leningrad State Order of Lenin Inst for the Advanced Training of Physicians inemi S. N. Kirov. Leningrad, 1956. (Dissertion For the Degree of Candicate in Medical Sciences.)

Knizhneya letopis', No. 39, 1956. hoscow.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755720014-9"

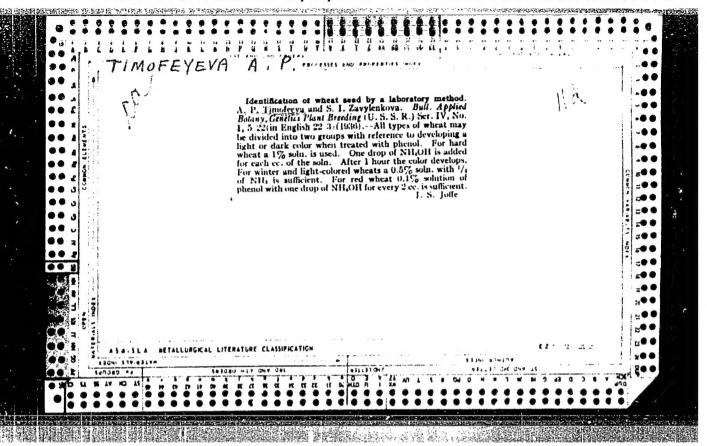
TIMOFEYEVA, A.M.; ZAMAKHOVER, Sh.M.

THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF

Clinical and pathophysiological study on the effect of small doses of barbamyl in depressive patients. Vop. psikh. nevr. no.10:327-338 '64. (MIRA 18:12)

1. Institut fiziologii Imeni ("P Pavlova AN SSSR, Laboratoriya patologii vysshey nervnoy deyatel nosti cheloveka (zav. - prof. V.I.Butorin).

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755720014-9"



GORNAK, K.A.; TIMOPEYEVA, A.P.; SHTYREN, M.Ya. (Moskva)

Malignant adenomatosis of the lungs. Elin. Med. 32 no.6:66-74 Je '54.

1. Iz patologoanatomicheskogo otdeleniya (zav.-deystvitel'nyy chlen tay imeni Medsantrud, l-y Gorodskoy i T.V.Davydovskiy) bol'nitbol'nits.

(LUNGS,

*carcinoma, alveolar)

**Carcinoma, alveolar*

TIMOFEYEVA, A. S.

Development of the twilight state of consciousness in excretory urography. Urologiia no.3:52-53 '61. (MIRA 14:12)

1. Iz kafedry psikhiatrii (zav. - prof. M. A. Gol'denberg) Novosibirskogo meditsinskogo instituta.

> (URINARY ORGANS—RADIOGRAPHY) (SKIODAN—TOXICOLOGY)

TIMOFEYHVA, A. S., assistent

Activity of cholinesterase in the blood in acrichine "psychosis" in animals. Trudy Novosib. gos. med. inst. 37:145-150 '61.

(MIRA 15:6)

(QUINACRINE__TOXICOLOGY) (CHOLINESTERASES)
(PSYCHOSES)

GOL'DENBERG, M. A., prof.; PRILENSKIY, Yu. F., assistent; KOROLENKO, TS. P., assistent; TIMOFEYEVA, A. S., assistent

化学的 化共享 医克里克 医乳球 计数据 计数据 医克里特氏病 医多种性 医甲状腺 医多种性 医克里特氏

Some problems of somatic disorders and of the pathogenesis of acrichine "psychosis" in animals. Trudy Novosib. gos. med. inst. 37:203-219 '61. (MIRA 15:6)

(PSYCHOSES) (QUINACRINE_TOXICOLOGY)

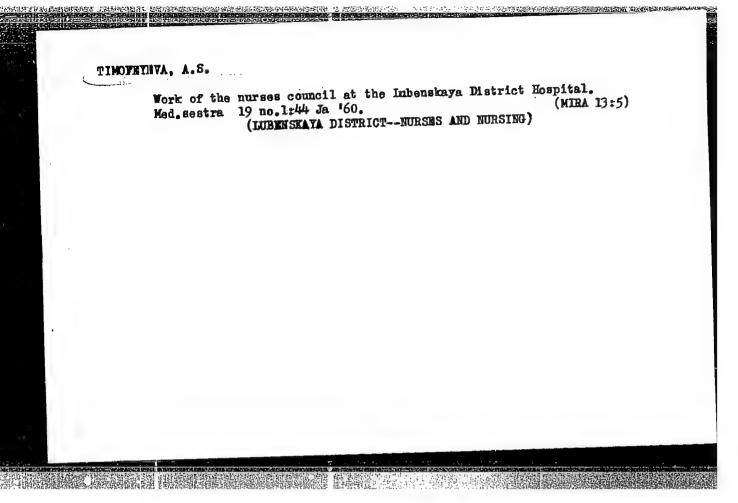
TIMOFEYEVA, A. S., assistent; KOROLENKO, TS. P., assistent

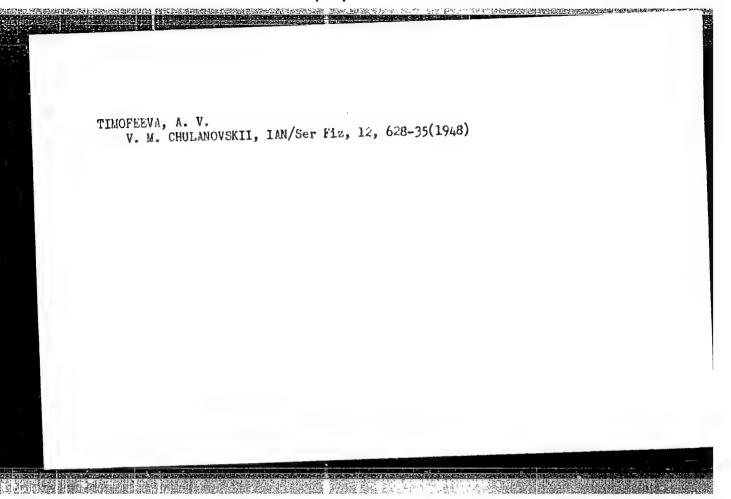
Materials on the characteristics of higher nervous activity in acrichine "psychosis" in animals. Trudy Novosib. gos. med. inst. 37:109-117 '61. (MIRA 15:6)

(NERVOUS SYSTEM) (PSYCHOSES) (QUINACRINE_TOXICOLOGY)

TIMOFEYEVA, A. S., assistent Calcium content in the blood in acrichine "psychosis" in animals.
Trudy Novosib. gos. med. inst. 37:154-157 '61.

(PSYCHOSES) (QUINACRINE_TOXICOLOGY) (1 (CALCIUM IN THE BODY)





TIMOFEYEVA, A.V. AND FRIM, S.E.

Course in General Physics, Part II, Ed. 4-e, GITTI. (1952) p. 145

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755720014-9"

TIMOFEYEVA, A.V.; POPOVA, O.V.

Application of chemistry in footwear manufacture. Kozh.-obuv. prom. 6 no.5z13-14 My '64. (MIRA 17:12)

TO POST OF THE PROPERTY OF THE

TIMOFEYEVA, A.P.
DAVYDOVSKIY, I.V., professor; TIMOFEYEVA, A.P.

Report on one hundred clinical and anatomical conferences of the pathoanatomical section of "Medsantrud" Hospital and the Department of Pathoanatomy of the Second Moscow (Stalin) Medical Institute.

Arkh.pat. 19 no.4:66-84 157. (MLRA 10:6)

1. Deystvitel'nyy chlen *kædemii meditsinskikh nauk SSSR (for Davydovskiy)

(ANATONY, PATHOLOGICAL)

DNEPROVSKAYA, I. A., SAMARSKIY, V. I. and TIMOFETEVA, E. A.

"Loudspeakers for Reproduction of High Audio Frequencies."

paper presented at the 4th All-Union Conf. on Acoustics, Moscow, 26 May - 2 Jun 58.

Timofeyeva, E.A.

USSR/ Chemistry - Catalytic conversion

Card 1/2

Pub. 40 - 18/27

Authors

* Timofeyeva, E. A., and Shuykin, N. I.

Title

Conversions of individual hydrocarbons in contact with natural aluminum

silicates. Part 2

Feriodical

Izv. AN SSSR. Otd. khim. nauk 6, 1075-1081, Nov-Dec 1954

Abstract

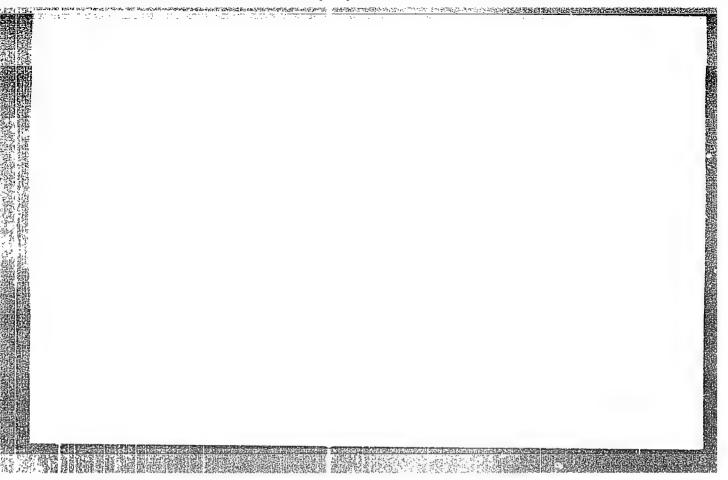
Studies were made to determine the conversions of cyclohexane, methyl-cyclohexane and toluene over activated Troshkovsk clay (Al₂SiO₃) at 450 and 500°. It is shown that the degree of cyclane conversion increases with the increase in the molecular weight. Benzene and its homologues, as well as methylcyclopetane and unsaturated hydrocarbons were found among the cyclohexane conversion products.

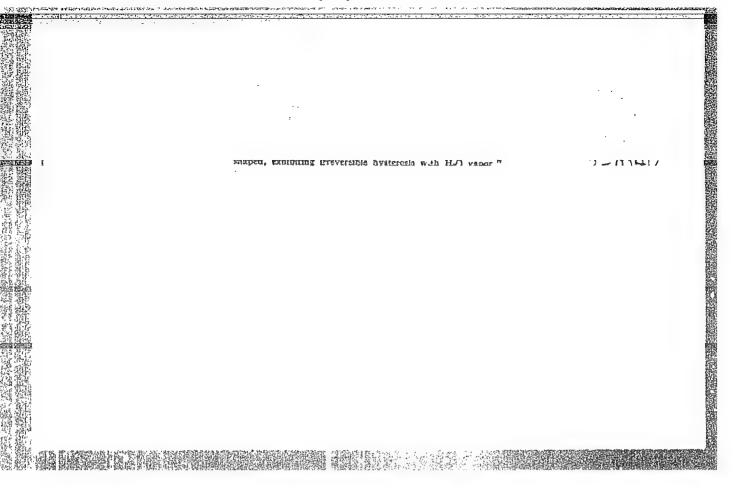
Institution

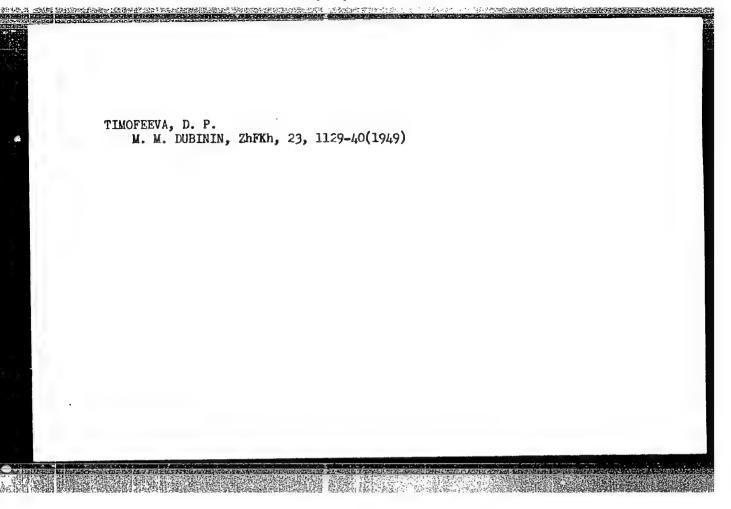
Acac. of Sc., USSR, The N. D. Aelinskiy Institute of Org. Chemistry

Submitted

January 22, 1954

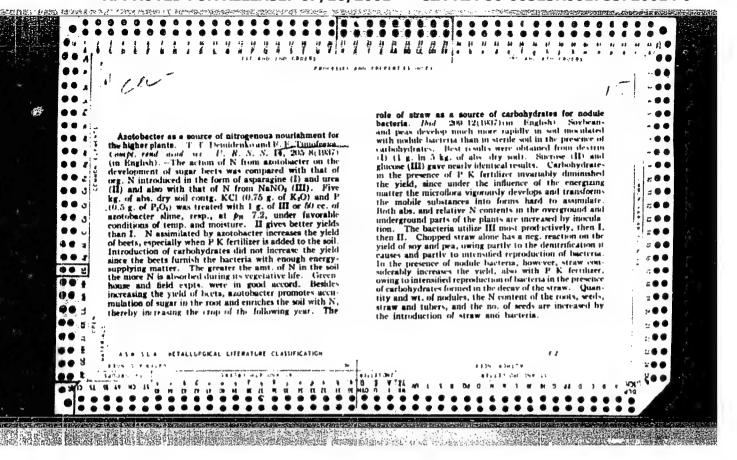


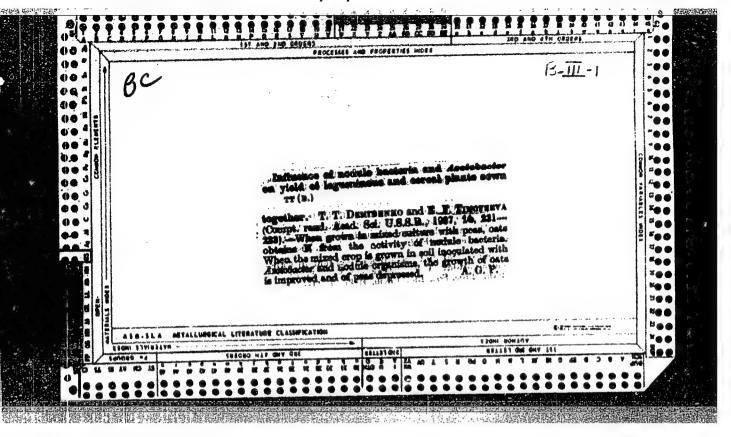


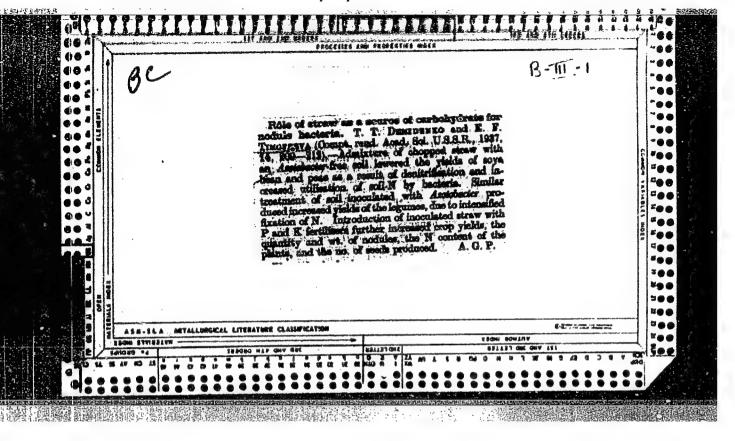


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CIA-RDP86-00513R001755720014-9







BLOKHIN, M.A.; TIMOFEYEVA, E.V.; CHUKHLOV, G.Z.

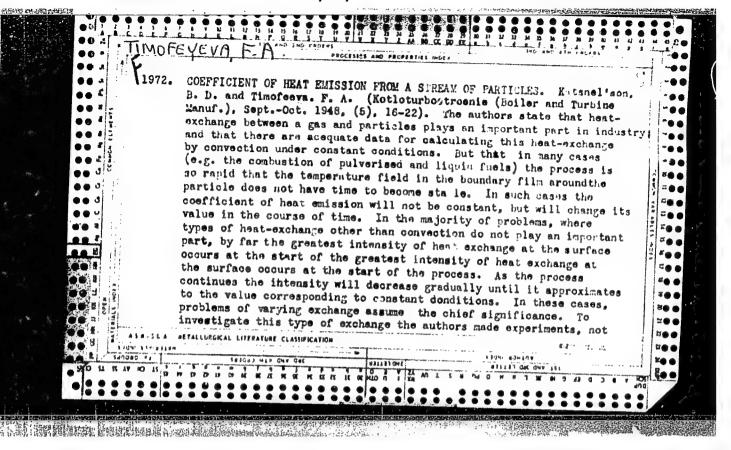
Determining diffusion coefficients by means of secondary X-ray spectra. Izv.AN SSSR.Ser.fiz. 20 no.7:809-810 J1 '56. (MLRA 9:11)

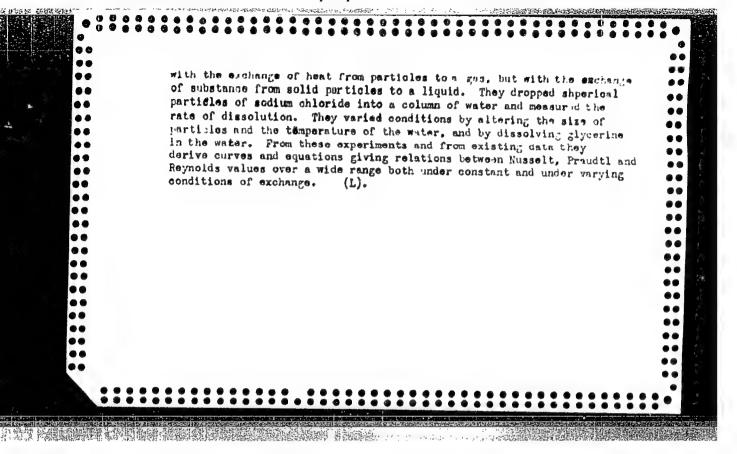
1. Rostovskiy gosudarstvennyy universitet imeni V.M.Molotova.
(Diffusion) (X-ray spectroscopy)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755720014-9"

TIMOFEYEVA, E.Ye.; LYUPVIGOV, R.B.; TEPTSEHLADZE, T.V.

Measurement of thormal neutron fluxes in an IRT.2000 resolver.
Soob. AN Gruz. SSR 34 no.2:305-311 My '64. (MIRA 10:2)





TIMOFEYEVA, G.

nulu katol (kii kaikishanda kaikisti bikilotiki salad

Let's train convinced and devoted partisans of the cause of our party. Prof.-tekh.obr. 20 no.11:18-21 N '63. (MIRA 17:1)

1. Zaveduyushchaya otdelom shkol Moskovskogo gorodskogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza.

SANKIN, N.; TIHOFEYEVA, G.

Radio communication on one side band. Radio no.11:40-43 N '53.

(MLRA 6:11)

(Telephone, Wireless)

TIMOFEYEVA, G.A., kand.med.nauk; BOGDANOVA, S.M.

Clinical laboratory characteristics of Salmonella infections in children. Vop.okh.mat.i det. 8 no.3:40-46 Mr '63.

(MIRA 16:5)

1. Iz kafedry infektsionnykh zabolevaniy u detey (zav. - prof. A.T. Kuz'micheva) Leningradskogo pediatricheskogo meditsinskogo instituta i Vasileostrovskoy detskoy infektsionnoy bol'nitsy (glavnyy vrach - zasluzhennyy vrach RSFSR N.A. Nikitina).

(SAIMONELLA INFECTIONS)

TIMOPEYEVA, G.A.

Treatment of acute dysentery in children by rectal administration of synthomysin (in suppositories). Vop.okh.mat. i det. 1 no.4:
92 J1-Ag '56. (MIRA 9:9)

1. Iz infektsionnogo otdela nauchno-issledovatel'skogo Leningradskogo pediatricheskogo instituta i Detskoyinfektsionnoy bol'nitsy Sverdlovskogo rayona. Vop.okh.mat. i det. 1 no.4:92 Jl-Ag '56. (MIRA 9:9)

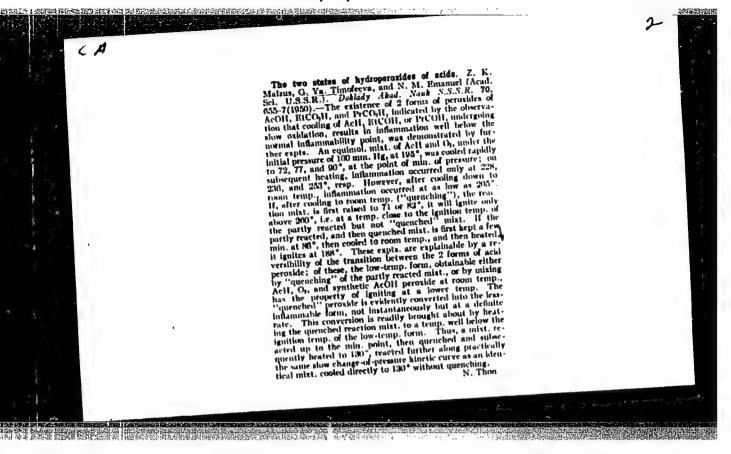
(CHLOROMYCETIN) (DYSENTERY)

MOROZENKO, M.A.; BARYSHEVA, A.E.; TIMOFEYEVA, G.A.; BYSTRYAKOVA, L.V.; KALINNIKOVA, O.N.

Diagnostic value of the complement fixation reaction in viral respiratory infections of infants. Acta virol. (Praha)[Eng] 7 no.6:534-541 163.

1. Institute of Experimental Medicine, U.S.S.R. Academy of Medical Sciences, and The Leningrad Institute of Pediatrics, Leningrad U.S.S.R.

(COMPLEMENT FIXATION TESTS)
(RESPIRATORY TRACT INFECTIONS)
(INFLUENZA) (MYXOVIRUS INFECTIONS)
(ADENOVIRUS INFECTIONS) (ECHO VIRUSES)
(COXSACKIE VIRUS INFECTIONS)



TIMOFEXEVA; G.A., kand.med.nauk

Agglutination reaction in patients with coli infection with special reference to age and clinical characteristics. Pediatrila no.5%43~47 161. (MIRA 14%5)

l. Iz kafedry infektsionnykh zabolevaniy u detey (zav. - dotsent A.T. Kuz!micheva) Leningradskogo pediatricheskogo meditsinskogo instituta (dir. - prof. N.T. Shutova) i detskoy infektsionnoy bol!nitsy Sverdlovskogo rayona Leningrada (glavnyy vrach - zasluzhennyy vrach RSFSR N.A. Nikitina, zav. laboratoriyey - kand. med.nauk V.A. Khrushchova).

(ESCHERICHIA COLI) (BLGOD-AGGLUTINATION)

TIMOFEYEVA, G.A., kand.med.nauk; BOGDANOVA, S.M.; DANILOVA, V.A.; LYUSTIGMAN, Ye.D.

Etiology and clinical aspects of gastrointestinal diseases in children, especially infants. Sov. med. 25 no.2:42-46 F '62. (MIRA 15:3)

l. Iz kafedry infektsionnykh zabolevaniy u detey (zav. kafedry - dotsent A.T. Kuz'micheva) Leningradskogo pediatricheskogo meditsinskogo instituta (dir. - kand.med.nauk Ye.P. Semenova) i detskoy infektsionnoy bol'nitsy Sverdlovskogo rayona (glavnyy vrach - zasluzhennyy vrach RSFSR N.A. Nikitina).

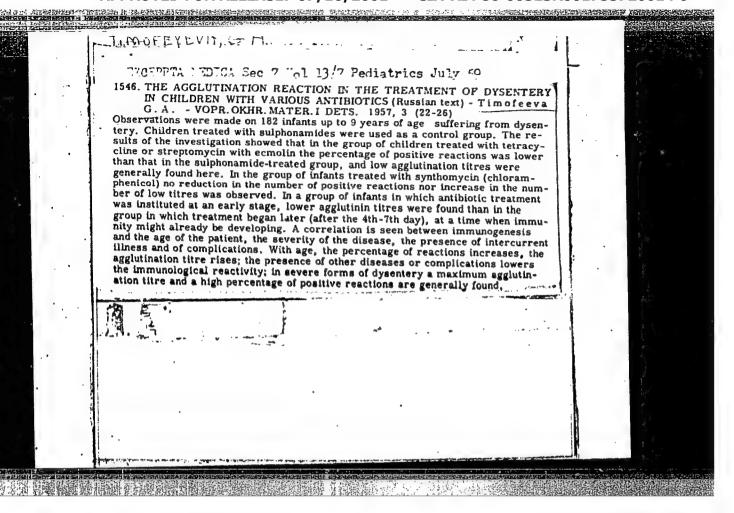
(GASTROENTEROLOGY)

BYSTROVA, V.V., kand.med.nauk; TIMOFEYEVA, G.A., kand.med.nauk

Colimycin in the treatment of colienteritis in children. Vop. okh. mat. i det. 5 no. 2:28-33 Mr-Ap '60. (MIRA 13:10)

1. Iz Leningradskogo nauchno-issledovatel'skogo instituta antibiotikov (direktor - A.V. Loginov) i kafedry infektsionnykh zabolevaniy u detey (ispolnyayushchiy obyazannosti zaveduyushchego - dotsent A.T. Kuz'micheva) Gosudarstvennogo pediatricheskogo meditsinskogo instituta.

(INTESTINES—DISEASES) (ANTIBIOTICS)



TIMOFEYEVA, G.A., kandidat meditsinskikh nauk

Widel's test in dysenteric children treated with different antibiotics. Vop.ckh.mat.i det. 2 no.3:22 -26 My-Je '57. (MLRA 10:7)

1. Iz otdela detskikh infektsiy nauchno-issledovatel'skogo pediatricheskogo instituta (dir. - prof. A.L.Idbov) i Detskoy infektsionnoy bol'nitsy Sverdlovskogo rayona (glavnyy vrach N.A.Nikitina) (DYSENTERY) (ANTIBIOTICS)

USSR/Physics - Electric are

TIMOFEYEVA, G.G.

FD-1862

Card 1/1

Pub. 146-22/25

Author

: Granovskiy, V. L., and Timofeyeva, G. G.

Title

Compression and bending of an arc in rarefied gas during great current

strength

Periodical: Zhur. eksp. i teor. fiz. 28, 378, March 1955

Abstract

The authors experimented on arcs in rarefied vapors of mercury and inert gases in straight cylindrical tubes without constrictions at constant current direction. Measurements with a mobile probe in a tube with diameter 70 mm and Hg vapors at pressure 1 micron/Hg confirmed that at increase of current from 1 to 80 amperes the width of the column decreases by about 25%. A detailed description of these experiments is planned. Five refer-

ences.

Institution: All-Union Electrotechnical Institute [All-Union Electrical Engineering Inst]

Submitted: November 30, 1954

TIMOFEYEVA, 36

Category: USSR/Electronics - Gas Discharge and Gas-discharge Instruments H-7

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4335

Author : Timofeyeva, G.G., Granovskiy, V.L.

Inst : All-Union Electrotechnical Institute

Inst : All-Union Electrotechnical Institute
Title : Deformation of the Column of the Arc in a Rarefied Gas at Large Current

Orig Pub : Zh. eksperim. i teor. fiziki, 1956, 30, No 3, 475-487

Abstract: Arcs were investigated in mercury, hydrogen, argon, and krypton at pressures of approximately 10⁻⁴ -- 10⁻³ mm mercury and at currents in a up to 200 amp. It was found that the dialf-width of the arc column in a tube with a radius I = 30 -- 35 mm at p ~1 micron mercury (mercury vapor) diminishes by 30% as the current grows to 170 amp. It was impossible to detect a further compression of the arc by increasing the current to 2,000 amp. owing to the occurrence of strong oscillations of the probe current, arc voltage, and arc current. The amplitude of the oscillations increases with increasing i and diminishes with p. The frequency of these oscillations is 10⁴ --10⁵ cycles, increasing with i and diminishing with increasing R and with increasing molecular weight of the gas. The oscillations result from

card : 1/2

. . .

Category : USSR/Electronics - Gas Discharge and Gas-discharge Instruments

H-7

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4335

the disordered displacement of the string of the arc over the section of the tube. A compressed arc column was observed visually and photographed at short current pulses i ~ 500 -- 2,000 amp (during which the arc did not have time to shift, $\sim 10^{-6}$ sec). The solumn of the arc compresses into a narrow string bent approximately in a helix that adheres to the walls of the tube. The compression of the column into a narrow string and its flexure into a helix are attributed to the electrodynamic action of the arcs own magnetic field, and its displacement is attributed to gas-dynamic action (local rarefaction of the gas in the channel of the arc). Bibliography, 23 titles.

Card : 2/2

AUTHOR:

Timofeyeva, G.G.,

57-11-33/33

TITLE:

Pinch-Effect and the Arc Break in the Narrowed Part. (Pinch-effekt

i obryv dugi v suzhenii.)

PERIODICAL:

Zhurnal TekhnFiz., 1957, Vol 27, Nr 11, pp. 2669-2671 (USSR)

ABSTRACT:

It was observed by the author that on the occasion of a further increase of the amperage after a break of current under certain circumstanes a permanent current without breaks is flowing. It is assumed that the break of current by the strong electrodynamical compression of the arc in the narrowed part is prevented by its own magnetic field. In every moment the compressed arc-wire only occupies one part of the cross-section of the narrowed part and is displaced in the course of the dilution of gas in this part of the cross-section into the adjacent regions. Therefore the development of positive ions in the narrowed part of the tube does not stop and the double electric layer at the cathode side of the narrowed part, the electrical-optical influence of which guarantees, the penetration of the electron-current into the narrowed part, is conta inuously filled up by ions. The photography of the phenomenon of the arc at the narrowed part on the occasion of high amperages confirms this assumption. It is shown that the break of current only takes place, if the pinch effect current is higher than that of the break current. The highest possible break current is

Card 1/2

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Pinch-Effect and the Arc Break in the Narrowed Part.

57-11-33/33

a-proportionality coefficient which for each gas is determined by experiment. c - relation of the radius of the narrowed part to the There are 2 Slavic references.

ASSOCIATION: Institute for Electrotechnics im. V.I. Lenin, Moscov (Elektrotekhniches-

kiy institut im. V.I. Lenina, Moskva) SUEMITTED:

April 28, 1957

AVAILABLE: Library of Congress.

Card 2/2

positive are column in rarified gas at Manual marker currents."

Mor, 1958. 10 pp (Pain Sci Ros Inst of Balancing maker Gosphen Utom.

All-Union Order of Lemin Electrical Engineering Inst in V.I.Lenin, 150 copies (KL, 45-58, 141)

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11.9 H1 7 (3-10 W/1

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L 45979-66 EWT(1) IJP(c) ACC NR AP6028611 SOURCE CODE: UR/0057/66/036/008/1387/1393 AUTHOR: Baranov, V.Yu.; Musin, A.K.; Timofeyeva, G.G. ORG: All-Union Electrotechnical Institute im. V.I.Lenin, Moscow (Vsesoyuznyy elek-TITLE: Diffusive spread of a plasma condensation and the optimum length of a plasma SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 8, 1966, 1387-1393 TOPIC TAGS: plasma acceleration, plasma gun, plasma electron temperature, plasma velocity ABSTRACT: Two of the authors have previously given a theory of the acceleration of plasmas in a rail accelerator, in which the effects of electrode erosion and diffusive scattering of the plasma particles were taken into account and from which it was concluded that there are optimal lengths of the plasma gun for maximum energy of the plasma, maximum momentum of the plasma, and maximum efficiency (V.Yu.Baranov and A.K. Musin, Radiotekhnika i elektronika, 9, No.2, 283, 1964). This theory has been confirmed in part by experiments of A.D. Timofeyev, V.G. Marginin, B.A. Shevchuk, and A.A. Kalmykov (ZhTF, 35, No.5, 858, 1965). The present paper reports experiments undertaken during 1960 and 1961 in order further to test this theory and to investigate factors that were not included in the theory. Plasmas were produced and accelerated by the 0.5 to 7 kV UDC: 533.9

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755720014-9"

ACC NR. AP6028611

discharge of 110 uf capacitor in a coaxial or rail accelerator from 0.1 to 43.0 cm long. The electrode diameters in the coaxial accelerator were 1.0 and 3.3 cm, and the rail accelerator was so designed as to have the same inductance per unit length. In most of the experiments the pressure was kept below 10-3 mm Hg. The velocities of the plasmas were measured with the aid of two double probes, and their momenta were measured with a dynamic pendulum. High speed cinematograms and streak photographs were obtained of the plasmas in the rail accelerator. The results of the experiments were in qualitative agreement with the theory. The optimum length of the accelerator for maximum momentum was less than that for maximum kinetic energy. This is ascribed to the greater significance of the velocity for the energy than for the momentum. Motion of a portion of the plasma in the backward direction was detected and is ascribed to thermal expansion of the plasma. The backward momentum of the plasma decreased with increasing gas pressure (up to 10 mm Hg), whereas the forward momentum was almost independent of the pressure. This influence of the pressure on the backward momentum is ascribed to the cooling effect of the residual gas on the plasma electrons. It is concluded that there are optimum lengths of the plasma gun for maximum velocity of the plasma, maximum momentum of the plasma, and maximum efficiency of the conversion of electrical energy into kinetic energy of the plasma; that these optimum lengths are determined by the equilibrium between the acceleration process, friction, and diffuse scattering of the plasma; and that thermal expansion of the accelerated plasma in its center of mass system takes place and has a measurable influence on the characteristics of the accelerated plasma bursts. Orig. art. has: 10 figures. SUBM DATE: 18Aug65

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ORIG. REF: 006 OTH REF: 002

Card 2/2

JS

ACC NR: AP7000054 SOUCE CODE: UR/0207/66/000/005/0107/0112 AUTHOR: Baranov, V. Yu. (Moscow); Musin, A. K. (Moscow); Timofeyeva, G. G. (Moscow) ORG: none TITLE: Kinematics of the current-carrying layer in a plasma accelerator SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 5, TOPIC TAGS: plasma, plasma acceleration, plasma beach contention acceleration chages perfice, planne flow
ABSTRACT: The results of analytical and experimental investigations of the dependence of kinematic characteristics of quasi-neutral bunches of charged particles in "rail-type" accelerators on the electrical and geometric parameters of the accelerating circuit are compared. Proceeding from previous findings by one of the authors (A. K. Musin, Radiotekhnikai elektronika, v. 7, no. 10, 1962), the movement of a plasma bunch along the electrodes as a function of their erosion is described by an equation which can be approximately solved by an asymptotic method applicable to nonlinear oscillations with strong attenuation. The magnitudes characterizing the process of acceleration (current in the plasma, velocity of the current-carrying layer, momentum and mass of the bunch, Card 1/3

ACC NR: AP7000054

and the energy transfer coefficient) can then be numerically determined and their behavior qualitatively described. The main features of the rail-type plasma accelerator used for experimental investigations of the kinematics of bunches are diagrammatically shown. Two parallel copper bars 2.5 cm wide, 0.15 cm thick, and 37 cm long served as guiding electrodes (rails). The distance between them could be varied between 0.5 and 5.5 cm. The plasma source was the discharge current from a 50-300µF condenser at 0.5 to 7 kv between the rails, initiated by the breakdown of a shot of gas introduced between the rails beginning. The pressure of residual gases in the accelerator did not exceed 10-4 mm Hg. The velocity of the bunches was determined by double probes between the guiding rails. The momentum of the bunches was measured by ballistic pendulums suspended at the end of the track. The measurement results. presented in a number of graphs, show the interrelationship of the characteristic parameters along with the analytical data. The main conclusions drawn from the investigation are: 1) that, in case of low erosion, the limit speed of the plasma is proportional to the initial electrical energy and the inductivity gradient of the accelerating circuit, and inversely proportional to the mass of gas moved with the current; in case of strong erosion, the speed of the plasma is a function mainly of the initial voltage of the condenser, since its own mass grows fast in the process, which greatly reduces the acceleration. 2) The end momentum of the bunch does not depend on the mass of gas, but Card 2/3

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is a linear function of the condenser capacitance, the inductivity gradient of the circuit, and the square of the initial voltage. 3) The energy transfer, in case of low erosion, is a linear function of the initial electrical energy and the square of the inductivity gradient. In case of high erosion, only the inductivity gradient remains effective, together with the initial voltage. Orig. art. has: 7 rigures and 9 formulas. [WA-71]

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755720014-9"

ACC NR: AP7004641 (N) SOURCE CODE: UR/0288/66/000/003/0106/0107

AUTHOR: Neretina, N. A.; Timofeyeva, G. G.

ORG: All-Union Electrotechnical Institute im. Lenin, Moscow (Vsesoyuznyy elektro-

TITLE: Obtaining electron flux from an arc discharge plasma in the metal vapors

SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya tekhnicheskikh nauk,

TOPIC TAGS: electron radiation, electron flux, arc discharge, arc property, PLASMA

ABSTRACT: An experimental investigation was made of the use of plasma arc discharges in metal vapors as electron power sources. The electron flux was created by a low-voltage arc which was excited between a cylindrical stainless steel anode on a cathode made of copper or tin. The gap between the anode and cathode was 3—5 mm. A system of accelerating electrodes consisting of four cylinders and an electron collector was positioned behind the anode in a connecting pipe whose was 7 x 10^{-6} mm Hg and after several seconds of the burning of the arc the pressure increased up to 2 x 10^{-4} mm Hg. The arc was supplied from a rectifier with an operating voltage of 150 v. The currents of stable burning with the copper and tin higher than 20 v. An electron current of 20 ma was received on the collector with

ACC NR: AP7004641

the copper cathode at a discharge current of 50 a and an accelerating voltage of 0.9 kv; with the tin cathode the electron current was 6.5 ma at a discharge current of 30a and an accelerating voltage of 0.45 kv. An experimental setup operating with mercury vapor and cooled by liquid nitrogen provides an electron current of 1.5 a with an accelerating voltage of 5 kv and a discharge current of 25 a. Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: none/

KORSHAK, V.V.; PAVLOVA, S.A.; TIMOFEYEVA, G.I.; VINOGRADOVA, S.V.; PANKRATOV, V.A.

Effect of the method of preparation and of the size of the side chain radical on the viscosometric properties of polyarylates. Vysokom.soed. 7 no.10:1679-1683 0 '65. (MIRA 18:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

TIMOFEYEVA, G.I.; PAVLOVA, S.A.; KORSHAK, V.V.; Prinimala uchastiye: BRAGINA,

Effect of the method of synthesis on the structure of polyarylate molecules based on 2,2-bis-(4-hydroxyphenyl)propane and isophthalic acid. Vysokom.soed. 7 no.7:1208-1213 Jl 165. (MIRA 18:8)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

TIMOFEYEVA, G.I.; PAVLOVA, S.A.; KORSHAK, V.V.

Effect of the method of preparation and the size of the side chain radical on the molecular weight distribution of polyarylates. Vysokom. soed. 7 no.8:1436-1441 Ag !65. (MIRA 18:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

TIMOFEYEVA, G.1.3 DUBROVINA, L.V.; KORSHAK, V.V.; PAVLOVA, S.A.

Viscosimetric properties of polyarylates. Vysokom. soed. 6 no.11:2008-2010 N 764 (MIRA 18:2)

Molecular weight distribution of polyarylates. Ibid. 22011-2014

1. Institut elementoorganicheskikh soyedinemiy AN SSSR.

KORSHAK, V.V.; PAVLOVA, S.A.; TIMOFEYEVA, G.I.; VINCGRADOVA, S.V.; MYKEATOV, V.A.

Influence of the steric factor on the viscosimetric properties and polydispersity of polyarylates. Dokl. AN SSSR 160 no.1:119-122 Ja *65. (MIRA 18:2)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Korshak).

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Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, No. 3, p. 39, # 1946

AUTHORS:

Kaydanovskiy, N. L., Ikhsanova, V. N., Soboleva, N. S., Timofeyeva, G. M., Gel'freykh, G. B.

TITLE:

A Great Burst of Solar Radio-Frequency Radiation of March 3, 1958

PERIODICAL: Solnechnyye dannyye, 1958, No. 3, pp. 72-75

TEXT: The authors present the results of observations of radio-frequency radiation burst at a wavelength of 3.2 cm. Observations were carried out at the Pulkovo Observatory simultaneously with a polarization radiometer and the great Pulkovo radiotelescope. The burst was connected with a visual flare of Class 3 and radio bursts at frequencies of 208, 60 and 178 Mc. The maximum flux from the burst was 10 times higher than the flux from a quiet Sun. The degree of circular polarization, being equal to 7%, remained unchanged during the burst. The angular dimensions of the active formation which gave rise to the burst were $\simeq 1.5$. Effective temperature $\sim 10^{8}$ K. The difference in the coordinates of

Card 1/2

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A Great Burst of Solar Radio-Frequency Radiation of March 3, 1958.

the burst and visual flare made it possible to determine that the altitude of the burst over the photosphere amounted to 0.1 R \odot . There are 8 references.

N. S. Soboleva

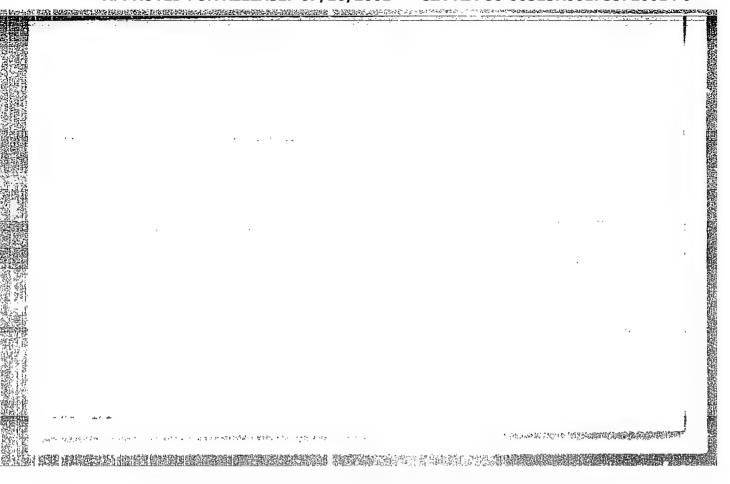
Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

SOBOLEVA, N.S.; TIMOFEYEVA, G.M.

Distribution of polarized radio emission in the Cygnus-A source according to observations at Pulkovo. Dokl. AN SSSR 153 no.3:555-558 N 163. (MIRA 17:1)

1. Glavnaya astronomicheskaya observatoriya AN SSSR. Predstavleno akademikom V.A. Kotel¹nikovym.



KOROL'KOV, D.V.; TIMOFEYEVA, G.M.

Gain distribution in a radiometer. Izv. GAO 23 no.3:191-193 164.

Ferrite and diode modulators for radiometer. Ibid.:236-237

(MIRA 17:11)

	TIMIOFE/LVA, J./11.	2	
	KOROLKOV, D.V., PARTYSKIY, IU.N., TIMOFETEVA, G.M., KRAYKIN, S.E.		
	High Resolution Radio Observations of Venus and Jupiter at the Fulkovo Observatory.		,
	Report to be submitted for the 4th International Space Science Sympos (COSPAR) Warsew, 2-12 June 63	ium	
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KOROL KOV, D.V.; PARIYSKIY, Yu.N.; TIMOFEYEVA, G.M.; KHAYKIN, S.E.

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High-resolution radio-astronomical observations of Venus.
Dokl.AN SSSR 149 no.1865-67 Mr 163. (MIRA 1682)

1. Glavnaya astronomicheskaya observatoriya AN SSSR. Predstavleno akademikom V.A.Kotel'nikovym.

(Radio astronomy) (Venus (Planet))

GRECHUKHINA, O.A.; TIMOFEYEVA, G.P.

Effect of foliar feeding of plants on the absorption of mineral nutrients by the root system. Vest. IGU 16 no.3:36-45 61. (MIRA 14:2)

(Plants-Nutrition)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755720014-9"

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S/123/60/000/009/002/017 A004/A001

18.1110

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1960, No. 9, p. 20, # 43233

AUTHORS:

Rakhshtadt, A.G., Meshcherinova, O.N., Zelenskiy, G.K., Timofeyeva,

G.S.

TITLE:

Investigating the Properties and Heat Treatment of Boron-Alloyed

Spring Steels

PERIODICAL:

V sb.: Metallovedeniye i term. obrabotka. ("Stal'", 1958.

Prilozh.), Moscow, 1959, pp. 93-126

TEXT: The authors give an account of the investigation results of the effect of boron (0.0017 - 0.005%) and heat-treatment conditions on the mechanical properties of the spring steel grades $50\,\mathrm{X}$ (50Kh), $50\,\mathrm{X}$ ($50\,\mathrm{KhG}$), $55\,\mathrm{X}$ (55KhG), $55\,\mathrm{X$

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Investigating the Properties and Heat Treatment of Boron-Alloyed Spring Steels

strongest effect of boron on the tempering ability can be observed with the chrome-manganese, 55×7 (55KhGR), and silicon-manganese, 55×7 (55KhGR), and silicon-manganese, 55×7 (55SG2R), steel grades. Steel grades with boron possess a somewhat higher E at all annealing temperatures, a higher fatigue strength and higher ductility and toughness values after isothermal hardening.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

BARCNENKO, V.A.; TIMOFEYEVA, K.F.

Effect of high-frequency and ultrahigh-frequency fields on conditioned reflex activity and some unconditioned functions in animals and man. Fiziol.shur. 45 no.2:203-207 F 159. (MIRA 12:3)

1. From the Institute of Occupational Hazards Control, Leningrad. (ELECTRICITY, effects,

high & ultrahigh frequency fields, on conditioned & unconditioned reflexes (Rus))

(RMFLEX, CONDITIONED,

eff. of high & ultrahigh frequency electric fields (Rus))

unconditioned, eff. of high & ultrahigh frequency electric fields (Rus))

AUTHORS:

Granovskiy, V. L., Ryumina, K. P.,

S07/56-35-1-5/59

Savoskin, V. I., Timofeyeva, G. G.

TITLE:

Observations of the Pinch Effect During a Decrease of

Amperage (Nablyudeniya pinch-effckta pri umen'shayushcheysya

sile toka)

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1958,

Vol. 35, Nr 1, pp. 45 - 49 (USSR)

ABSTRACT:

The influence of the plasma's own magnetic field upon the plasma column has already been investigated by various authors (Refs 1-5); in some cases this was done in the case of increasing amperage (e.g.Ref 4). In the present

paper the authors describe investigations of plasma deformations

in the case of decreasing amperage in discharge tubes of 10 and 32 mm diameter in hydrogen- or mercury vapor at from 10^{-2} to 10^{-2} torr, at current pulses of \sim 300 microseconds and amplitudes of from 1,3 to 5,5 kA (300 μ F, 1-3 kV). For photorecording an electron-optical transformer (type PIM-3, developed by M.M.Butlerov) was used.

Card 1/2

Photographs are given of a number of contracted, bent, or

Observations of the Pinch Effect During a Decrease of S07/56-35-1-5/59 Amperage

kinked plasma filaments. It was found that for di/dt <0 such electrodynamic deformations occur, which vanish again at points of high gas density (i.e.according to experimental conditions near the cathode or near the anode). Exposure in each case lasted 1,5 microseconds. There are 3 figures, 1 table, and 6 references, 2 of which are Soviet.

ASSOCIATION: Vsesoyuznyy elektrotekhnicheskiy institut (All-Union

Institute of Electrical Engineering)

SUBMITTED: February 12, 1958

Card 2/2

GELFREICH, G., IKHSANOVA, V. N., KAYDANOVSKIY, N. L., SOBOLEVA, N. S., TIMOFEYEVA, G. M., and UMETSKIY, V. N.

"Bursts of Microwave Radioemission Associated with Solar Flares."

paper presented at Symposium on Radio Astronomy, Paris, 30 Jul - 6 Aug 58.

BASS, S.I.; Prinimala uchastiye: TIMOFEYEVA, G.V.

Use of tert-butyl hydroperoxide for the quantitative determination of tri-n-butyl- and triphenyl phosphites. Zhur.anal.khim. 17 no.1:113-116 Ja-F '62. (MIRA 15:2)

1. M.V.Lomonosov Moscow Institute of Fine Chemical Technology.
(Phosphorus organic compounds)

KIRCHEVSKAYA, I.Yu.; VOLKOV, L.A.; TIMOFEYEVA, G.V.; MEDVEDEV, S.S., akademik

Stationary and nonstationary processes of butadiene polymerization catalyzed by the system R241C1 - GoCl₂(Py)₂. Dokl. AN SSSR 163 no.2: 375-378 Jl *65. (MIRA 18:7)

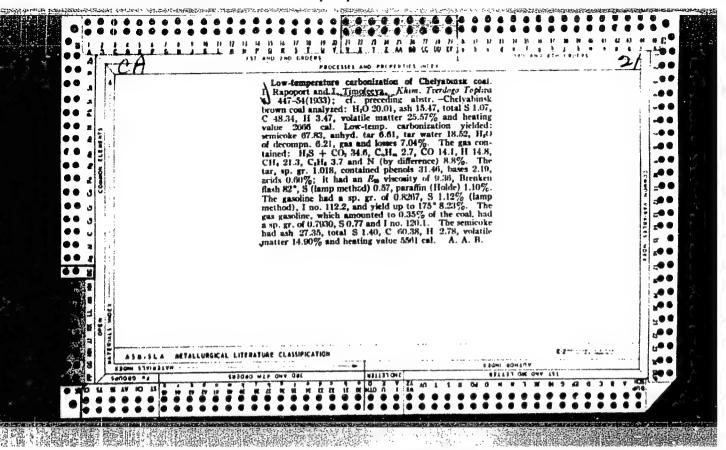
1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova.

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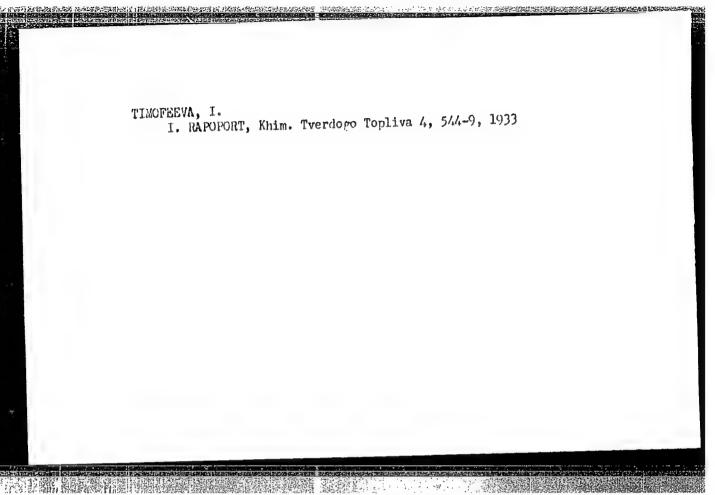
SANKIH, Nikolay Mikhaylovich; TRUNOV, Vadim Ivanovich. Prinimali uchastiye: TIMOFEYEVA, G.Ya.; KHANOV, B.A.; SAVITSKIY, B.I., BORISOV, G.B., otv.red.; VORONOVA, A.I., red.; MARKOCH, K.G., tekhn.red.

[Principles of technical planning of transmitting networks for television and shortwave F.M. broadcasting; information manual] Printsipy tekhnicheskogo planirovaniia peredaiushchikh setei televizionnogo i UKV ChM veshchaniia; informatsionnyi sbornik. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1960.
93 p. (MIRA 13:

1. Nauchno-issledovatel skiy institut svyazi Ministerstva svyazi SSSR (for Sankin, Trunov).
(Radio, Shortwave--Transmitters and transmission)
(Television broadcasting)



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AUTHORS:

Zgonnik, V.M., Engineer, Kakuyevitskiy, V. A., Candidate of Technical

Sciences, Silkin, A. S., and Timofeyeva, I. I., Engineers

TITLE:

Reconditioning of Carburized Parts by Electric-Pulse Building-Up

PERIODICAL: Svarochnoye proizvodstvo, 1961, No. 4, pp. 15 - 17

Electric-pulse (vibro-are) building-up in a liquid jet came into extended use for the reconditioning of worn-out parts. However, nonuniform hardness of built-up surfaces and considerable reduction of fatigue strength restrict the effectiveness of the method. The Ukrainian dorozhno-transportnyy nauchno--issledovatel skiy institut (Scientific Research Institute of Roads and Transportation) together with the Kiyev avtoremontmyy zavod No. 1 (Automobile Repair Plant No. 1) carried out an investigation to select the proper technological variant for repairing a Cardan shaft crosspiece by electric-pulse building-up assuring the necessary service properties of the part. The following technology was employed: grinding of the cross-pieces for building up to 21.4 0.1 mm diameter: building up to 23 - 23.5 mm diameter; grinding to rated dimensions (22-0.000 mm). The thickness of the built-up layer after mechanical treatment was 0.3 - 0.35 mm. Build-

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Reconditioning of Carburized Parts by Electric-Pulse Building-Up

ing-up was performed on the YAHH-5 (UANZh-5) machine with OBC (OVS) wire of 1.6 mm in diameter under the following conditions: 140 - 150 amp current; 12 v are voltage; 1.1 m/min electrode feed rate; building - up pace : 1.7 mm/rev; rotation speed of part - 11 rmp; industance - 4 PCT3 -34 (RSTE-34) coilings. The consumption of the cooling liquid (Q) varied from 0.1 to 0.6 1/min. A chemical analysis of the built-up parts showed that when building up with OVS wire under the aforementioned conditions cracks appeared at Q > 0.25 1/min; at Q = 0.3 1/min cracks formed systematically. The location of the cracks indicate that they were caused by tensile tangential residual stresses, formed on the external surface as a result of building-up process. The authors determined residual stresses on pins cut off the cross pieces using the Zaks method. The specimens were drilled from 8 to 16 mm, then bored out to 19 mm. The residual stresses were determined by consecutive grinding of the specimens along the external diameter to 0.25 mm depth, The nature of changes and magnitude of residual stresses in the remaining section was determined by interpolation from the equilibrium condition, i.e., the equivalence of the sum of positive and negative surfaces of the graph of residual stresses (Fig. 5). The experimental investigation yielded the following results: When

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Reconditioning of Carburized Farts by Electric-Pulse Building-Up

building-up worn out carburized steel parts under conventional conditions, the microhardness of the built-up metal is non-uniform and varies within 330 - 750 kg/mm² depending on the consumption of the cooling liquid. Burning-cut of carbon during the building-up process decreases with a higher consumption of the cooling liquid. Minimum carbon content in the built-up layer at Q = 0.1 1/min is 0.56%. As a result of non-uniform heating of the part built-up by electric pulse process a redistribution of residual tangential stresses over the section takes place. In the built-up layer residual tensile stresses arise which amount to 7.5 - 42.5 kg/ mm^2 depending on the consumption of the cooling liquid. At Q > 0.25 1/min these stresses exceed the ultimate strength of the built-up layer. This causes the formation of cracks passing into the base metal. Minimum residual stresses were observed when building-up with $Q=0.1\ 1/min;$ in this case cracks were not revealed. Heat treatment (quenching, or carturizing and quenching) of the part built up with small amounts of the occling liquid considerably increases the magnitude and stability of hardness and entails satisfactory redistribution of residual stresses over the section. This promotes an increase of fatigue strength of the parts. For reconditioning of parts with a high strength reserve, subjected during operation to static load and low wear, it is recommended to use electric-Card 3/6

\$/135/61/000/004/003/012 A006/A101

Reconditioning of Carburized Parts by Electric-Pulse Building-Up

-pulse building up at Q < 0.1 l/min without subsequent heat treatment. The repair of parts with low strength reserve operating under variable load and considerable wear, can be effectively performed by building-up with low consumption of cooling liquid and subsequent heat treatment, i.e., carburizing with quenching and low-temperature tempering. (heating to 800° C, for 20 min. cooling in water, tempering at $180 - 200^{\circ}$ C for 1 h). A control of parts built-up by the described technology showed high wear resistance of the pins and sufficient fatigue strength of the parts. There are 7 figures and 4 Soviet references

ASSOCIATION: Ukrdorstransnii

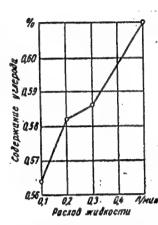
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Reconditioning of Carburized Parts by Electric-Pulse Building-Up

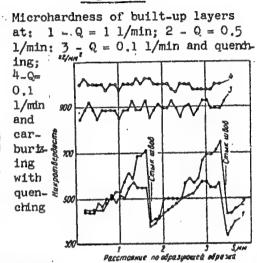
Figure 1:

Dependence of changes in the carbon content in building-up process on the consumption of, cooling liquid



Рыс. 1. Зависимость изменения годержания углерода в наплавке от расхода одлаждающей жидкости,

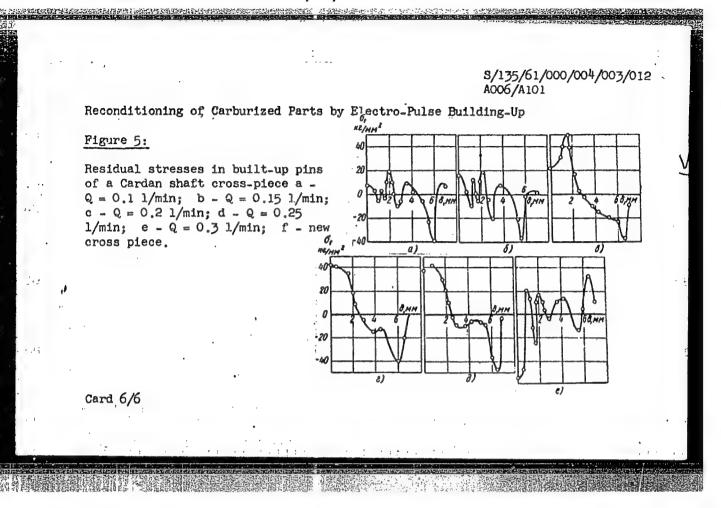
Figure 2:



Card 5/6 .

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755720014-9"



ZGONNIK, V.M., inzh.; KAKUYEVITSKIY, V.A., kand.tekhn.nauk; SILKIN, A.S., inzh.; TIMOFEYEVA, I.I., inzh.

Reconditioning of cemented parts by multiple-impulse built-up welding. Svar. proizv. no.4:15-17 Ap '61. (MIRA 14:3)

1. Ukrainskiy dorozhno-transportnyy nauchno-issledovatel'skiy institut. (Electric welding) (Machinery-Maintenance and repair)

S/079/60/030/04/63/080 B001/B011

AUTHORS:

Adamovich, L. P., Timofeyeva, I. I., Yutsis, B. V.

TITLE:

Aurin Tricarboxylic Acid and Its Reaction With Beryllium Salts

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 4, pp. 1325-1334

Aurin tricarboxylic acid TEXT:

OH COOH COOH OH

had been first suggested as an amplytic reagent in 1925 (Ref. 1). It is simply synthesized (Ref. 2) from easily available compounds, and is fairly often used in the form of ammonium salt, under the name of "Aluminon", as a reagent on

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aluminum (Ref. 3), some rare elements (Ref. 4), beryllium (Ref. 5), et al. Nonetheless, this acid in itself, as well as its reaction with metals, is insufficiently investigated (Refs. 6-9). A. Babko (Ref. 7) suggested a composition of the aluminum complex 1: 1 formed, according to his diagram (this composition was confirmed by L. Molot, L. Kulberg (Ref. 8)) without giving the lability constant. Recently, L. Serdyuk and collaborators (Ref. 9) re. ported on the presence of two beryllium-aluminum complexes with the composition 1: 1 (at pH 5) and 3: 1 (at pH 7), No demonstration was given, nor data concerning the properties of the reagent. This problem therefore requires an investigation to be made, first of all, on the acid itself. The authors studied the behavior of the acid in the pH-range 4-14, and calculated the constants of acid dissociation, as well as the coefficients of the molar light absorption at \$520 mm for the anions. Mention is made of the weakening of coloration of fresh alkali solutions of the dye in the course of time. In the pH-range 4-6, the formation of only one complex with the acid in the ratio 1 : 1 is observed in a fairly wide range of beryllium concentrations. The structure of this complex was defined. In the pH-range 13-14 a reaction of beryllium with the dye is likewise observed; this process was not investigated further. The complex arising in the acid region can be made use of for objective photometrie de-

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Aurin Tricarboxylic Acid and Its Reaction With Beryllium Salts

s/079/60/030/04/63/080 B001/B011

terminations at pH 4.3, as well as for visual ones at pH 6-7. Papers by I. S. Ioffe (Ref. 11) and N. P. Komar' (Ref. 14) are also mentioned. There are 5 figures, 3 tables, and 20 references, 11 of which are Soviet.

ASSOCIATION:

Khar'kovskiy gosudarstvennyy universitet (Khar'kov State

University)

SUBMITTED:

March 12, 1959

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262TI.8

TIMOFEYEVA, I. L.

USSR/Geology - Carboniferous

Jul/Aug 53

"The Middle Carboniferous in Dzhungaria Ala-Tau," O. L. Eynor

Iz Ak Nauk SSSR, Ser Geol, No 4, pp 119-124

States that the stratigraphy of the Upper Paleozoic of Dzhungarskiy Ala-Tau is still not well developed. Diagram shows the cross section of a layer over 530 m thick. States that one of the better cross sections of the Upper Paleozoic which contains a very rich complex of fauna is intersected by the Naryn and Dzhaman-Bulak rivers along the southern slope of the range. Recent studies by I. I. Gorskiy and I. L. Timofeyeva reveal the same fauna for the Upper Car-262T48 boniferous.

CIA-RDP86-00513R001755720014-9" APPROVED FOR RELEASE: 07/16/2001

Dissertation: "Tertiary Ethylene Clycerines and Their Dehydration." Cand Cher Jei,
Inst of Organic Chemistry imeni N. D. Zelinskiy, 3 Jun 54. Vechernyeya Noskya,
Noscow, 25 May 54.

SO: SUM 284, 26 Nov 1954

TIMOFEYEVA, I. M.

6280. Timofeyeva, I. M. Tretichnyye etilenovyye glitseriny i ikh degidratatsiya. M., J 1954. 16s. 22sm. (Akad. nauk. SSR. otd-niye khim. nauk. In-t organich. khimii). 100 ekz. B. Ts. 54-58176

SO: Knizhamya Letopis' 1, 1955

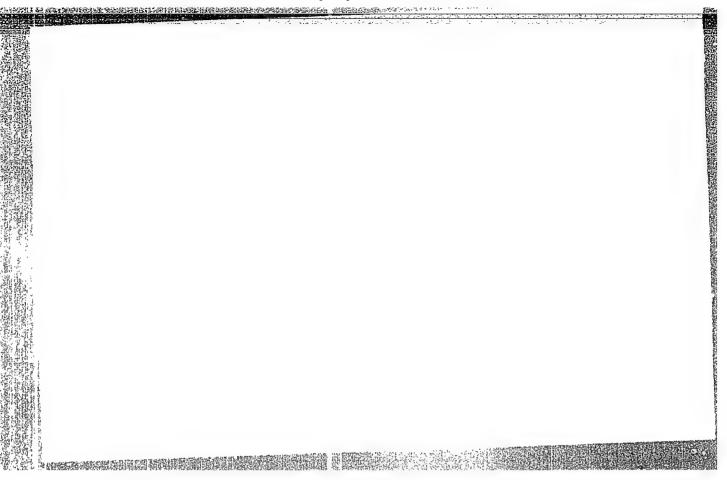
opoleksila kung da kansan meropenganan dan pangkan sebesah ang berasah

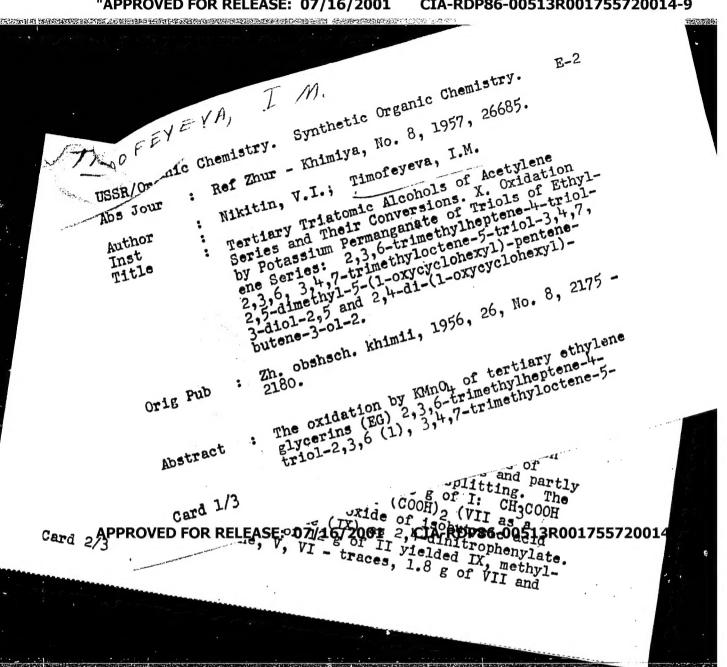
NIKITIN, V.I.; TIMOFKYEVA, I.M.

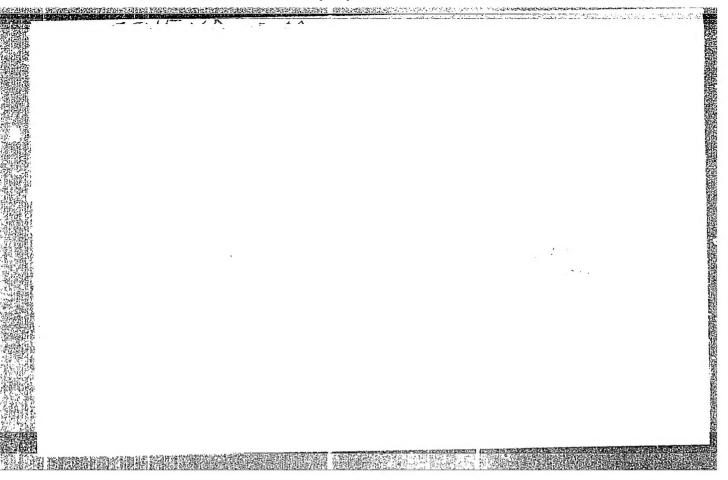
Tertiary triatomic alcohols of the acetylenic series and their conversions. Part 7. Hydrogenation of 2,3,6-trimethylheptyne-4-triol-2,3,6, 3,4,7-trimethyloctyne-5-triol-3,4,7, 2-methyl-5-(1-oxycyclohexyl)-hexene-3-diol-2,5, and 2,4-di(1-oxycyclohexyl)-butyne-3-ol-2. Zhur.ob.khim.25 no.7:1334-1343 J1'55.

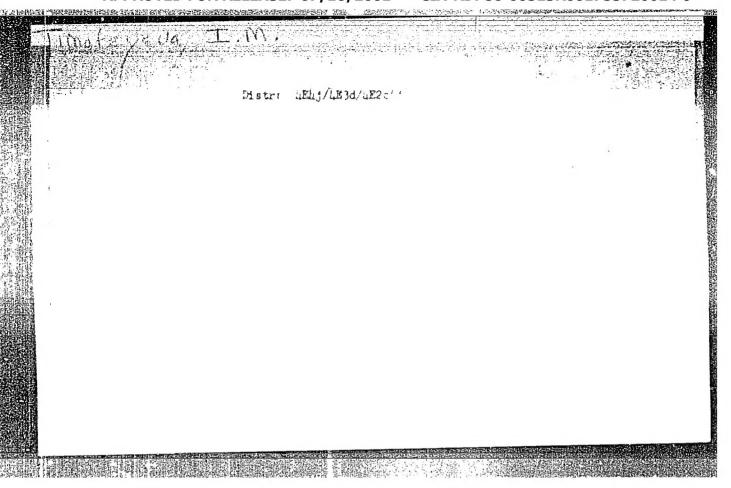
(MLRA 8:12)

1. Institut khimii Akademii nauk Tadzhikskoy SSR.
(Alcohols) (Hydrogenation)









5.3400

sov/79-30-3-9/69

AUTHORS:

Nikitin, V. I., Savranskaya, S. D., Timofeyeva, I. M.

TITLE:

Tertiary Triatomic Acetylenic Alcohols and Their Transformations. XVIII. Oxidation of Acetylenic

and Ethylenic Glycerols With Potassium

Permanganate

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 3, pp

764-770 (USSR)

ABSTRACT:

The authors reported previously (this journal, 1953, Vol 23, p 1330; ibid., 1956, Vol 26, p 2175) that the oxidation of ethylenic glycerols with KMnO₄ involves chiefly the cleavage of single bonds adjoining the multiple bond and that comparatively large amounts of oxalic acid are formed in this reaction. On oxidation of acetylenic glycerols, however, the cleavage occurs at the triple bond and is accompanied chiefly by the formation of hydroxy acids. The above was investigated in detail

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in the oxidation with KMnO4 of four acetylenic